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(21)Application number : 63-270732 (71)Applicant : TOSHIBA CORP

(22)Date of filing : 28.10.1988 (72)Inventor : HAGIWARA YASUHIKO
KATO SEIJI

(54) FLUORESCENT LAMP

(57)Abstract:

PURPOSE: To obtain a fluorescent lamp undergoing neither reduction in luminous flux nor change in chromaticity even when used over a long period of time by covering a blue phosphor comprising a plurality of specified blue phosphors with a fluorescent screen formed from a phosphor comprising a combination of a green phosphor with a red phosphor.

CONSTITUTION: A fluorescent screen is formed from a phosphor comprising a combination of a green phosphor of, e.g., the formula $(La, Ce, Tb)2O3.0.9P2 O5.0.2SiO2$, having an emission peak at 530-550nm with a red phosphor of, e.g., the formula $Y2O3/Eu$, having an emission peak at 600-620nm so as to cover a blue phosphor comprising a combination of three phosphors, i.e., a blue phosphor of the formula $Sr2P2O7/Eu^{2+}$, having an emission peak at 410-430nm, a blue phosphor of, e.g., the formula $(Ba, Mg)3Al16O27/Eu^{2+}$, having an emission peak at 440-460nm, and a blue phosphor of the formula $Ca10(PO4)6(F, Cl)2/Sb$, having an emission peak at 480nm.

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